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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,900	10/02/2003	Dennis W. Crabtree	50049	9672
22929 7590 03/15/2007 SUE Z. SHAPER, P.C. 1800 WEST LOOP SOUTH			EXAMINER	
			NGUYEN	, DINH Q
SUITE 1450 HOUSTON, TX 77027		•	ART UNIT	PAPER NUMBER
			3752	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)
		10/677,900	CRABTREE ET AL.
	Office Action Summary	Examiner	Art Unit
	·	Dinh Q. Nguyen	3752
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the o	correspondence address
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
2a)	Responsive to communication(s) filed on 12. This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pre	
Dispositi	on of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdred claim(s) is/are allowed. Claim(s) 1-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	awn from consideration.	
Applicati	on Papers		
10)	The specification is objected to by the Examir The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Replacement of the second secon	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
a)(Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the prince application from the International Bure See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
2) Notice	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date 12/12/06.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1-4, the limitation "self-metering automatic" is not clearly define in such a way to differentiate between automatically metering additives (self-metering) and automatically pressurizing nozzle (automatic), thus the limitation "self-metering automatic" could be interpreted as automatically metering additives and not pressure regulating at a predetermine pressure. Claims 10-12, the limitation "(pressure regulating, at least in part)" cannot be in parentheses and could be understood as a broad range (automatic) within a narrow range (pressure regulating, at least in part).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

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reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Crabtree et al. (U.S. Patent No. 6,659,187).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Crabtree et al. discloses a self-metering and discharge pressure regulating nozzle having an additive passage FC in communication with fluid conduit C, structure elements 94/96 defining a variable opening 94 associated with the additive passage FC, wherein the fluid conduit C with a discharge orifice PS that varies in size (see figure 1A).

With respect to claims 10-14, the apparatus shown by Crabtree et al. is capable of performing the method or steps recited in the claims.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindsay (U.S. Patent No. 3,647,002) in view of Steingass et al. (U.S. Patent No. 5,312,048).

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Lindsay discloses a fire fighting nozzle 85 comprising: a proportioner 11, an additive passageway 33 in fluid communication with a fire fighting liquid conduit 83, a discharge orifice 17/23 varies in size with the supply pressure for regulating discharge pressure, structural elements 33/35/37/41/19 defining a variable opening associated with the additive passageway 33 that is automatically varied in response to variation in sizes of the discharge orifice, or a valve 33/35/37/41/19 associated with the additive passageway 33 that is automatically varied in response to variation in sizes of the discharge orifice, and a ratio selector 77 with at least two settings (see figure) discloses. Lindsay does not teach the liquid conduit of the fire-fighting nozzle that has a variable discharge orifice. However, Steingass et al. discloses a discharge pressure regulating fire fighting nozzle with a fire fighting liquid conduit 21 with flow 27 and a discharge orifice 98 that varies in sizes (see Figures 2 and 3). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Lindsay with a firefighting nozzle that has a variable discharge orifice as suggested by Steingass et al. Doing so would provide a way to maintain a constant pressure for a fire fighting nozzle (see column 1, lines 15+).

Response to Arguments

- 7. Applicant's arguments filed December 12, 2006 have been fully considered but they are not persuasive.
- 8. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Dinh Q Nguyen **Primary Examiner** Art Unit 3752

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